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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,726	11/28/2001	Yi-Tun Huang	HUAN3096/EM	8318

7590 07/14/2004

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EXAMINER

TRUONG, LECHI

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 07/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/994,726

Applicant(s)

YI-TUN

Examiner

LeChi Truong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-4 are presented for the examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims **1,3** are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted

Prior Art (APA) in view of Chin (US. Patent 5,250,804).

3. **As to claim 1**, APA teaches the invention substantially as claimed including: a control interface card (a control interface card, page 1, ln 6-7), the CPU of the host computer (the CPU or host computer, page 1, ln 6-7), object position data (object position data, page 1, ln 6-7), providing triggering signal (providing triggering signal, page 1, ln 9-11), a position comparing circuit (a position compare circuit, page 1, ln 14-20), a feedback position data (a feedback position data, page 1, ln 15-18), a next comparison after matching(a next object position data for comparison, page 1, ln 16-19), a triggering signal to the CPU of said host computer upon matching of on comparison(providing a triggering signal to the CPU of the host computer when a comparison matched, page 1, ln 10-11).

4. APA do not teaches a data buffer adapted for registering of object, fetching registered object for comparing, an object shifting. However, Chin teaches a data buffer adapted for

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registering of object, fetching registered object for comparing (the Ve signal ... and loads the same into a buffer 26... the comparator unit 27 compares the output of the buffer 26 and the count output of the SLC 12, col 4, ln 65-67 to col 5, ln 1-11), an object shifting (shift register 22, page 4, ln 36-39).

5. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of APA and Chin because Chin's (the Ve signal ... and loads the same into a buffer 26... the comparator unit 27 compares the output of the buffer 26 and the count output of the SLC 12 would overcome incompatibilities between the read cycle of the computer and the scanning speed.

6. **As to claim 3**, APA teaches counting (a counter, page 1, ln 20).

7. Claims 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Chin (US. Patent 5,250,804) and further view of Wess et al (US. Patent 6,198,544 B1).

8. **As to claim 2**, APA and Chin do not explicit teach a motion control interface card. However, Wess teaches a motion control interface card (motion image card, col 1, ln 30-47).

9. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of APA, Chin and Wess because Wess's motion image card would provide an easy, hinge quality, and inexpensive manner for consumer from their home video tapes.

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10. Claims 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Chin (US. Patent 5,250,804) and further view of Johnson (US. Patent 5,764,896).

11. As to claim 4, APA and Chin do not teach a bus controller, a bus arbitrator connected to said bus controller and adapted for providing an interrupt signal to the CPU. However, Johnson teaches a bus controller, a bus arbitrator connected to said bus controller and adapted for providing an interrupt signal to the CPU (bus controller 208, the bus 206, col 5, ln 25-33, Fig. 2/ notification of the host processor 200 is handled by asserting an interrupt signal on the bus 206, col 7, ln 8-13/ ln 45-49).

12. It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of APA, Chin and Johnson because Johnson's (bus controller 208, the bus 206 would provide the advance notification of data from the network.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

July 8, 2004

A handwritten signature in black ink, appearing to read "L. Truong", written in a cursive style.